ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-1/2016 **Date: 16/3/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-1
Description of Test : Gradation for GSB.
Sample Location : At Site (Ward No.1)
Total Weight of Sample : 12000grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
53	0	0	0.00	100.0	100
26.5	147	147	1.23	98.78	70-100
9.5	3778	3925	32.71	67.29	50-80
4.75	1901	5826	48.55	51.45	40-65
2.36	1954	7780	64.83	35.17	30-50
0.425	2015	9795	81.63	18.38	15-25
0.075	1132	10927	91.06	8.94	3-10

Satisfy the Limits ☑
Does not satisfy the limits
**** As Furnished by the Customer***
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For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

AEE

Ground Floor, #35, 4th Main, 4th Stage, Next to Trinity Motors, Indl. Town, Basaveshwar Nagar, Bangalore – 560 079, Karnataka, India, Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-1/2016 **Date: 16/3/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-1
Description of Test : Sand Replacement for GSB
Sample Location : At Site (Ward No.1)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2398	2183	2286
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6852	6921	6940
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5796	5823	5821
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1284	1273	1298
6	Volume of sand in the hole, V=wb / Ys , cm3	951.11	942.96	961.48
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.52	2.32	2.38
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.87	62.36	62.35
10	Dry Weight =	59.63	57.39	57.5
11	Moisture Content =	6.89	5.98	6.85
12	Field Dry Density (g/cc)	2.35	2.18	2.21

Satisfy the Limits ☑
Does not satisfy the limits

**** As Furnished by the Customer***

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ALCON CTL TESTING PRIVATE LIMITED BANGALORE

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-1/2016 Date: 18/3/2017

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM – 161206-1
Grade of Concrete : M-20 Grade
Description of Test : Compressive strength of cubes. At Site (Ward No.1)
Samples Supplied to Lab by : **Sri. A. Chennareddy, Bengaluru.**

SL. No	Location	Laboratory Identification mark	Date of Casting	Date of Testing	Age of Specimen	Dimension of Specimen in mm (L x B x D) in mm	Area of Specimen in mm^2	Crushing Load (KN)	Compression Strength (N/mm^2)	Avg. Compressive Strength (N/mm^2)
1	Drains	161206/1	20/2/2017	28/2/2017	7 Days	(150X150X148)	22500	304	13.51	15.21
2	Drains	161206/2	20/2/2017	28/2/2017	7 Days	(150X150X149)	22500	279	12.40	
3	Drains	161206/3	20/2/2017	28/2/2017	7 Days	(150X150X149)	22500	444	19.73	
4	Drains	161206/4	20/2/2017	18/3/2017	28 Days	(150X150X149)	22500	515	22.89	21.69
5	Drains	161206/5	20/2/2017	18/3/2017	28 Days	(150X150X148)	22500	455	20.22	
6	Drains	161206/6	20/2/2017	18/3/2017	28 Days	(150X150X149)	22500	494	21.96	

☑ *Satisfactory*
☐ *Non Satisfactory*

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Ashwini K, B.E, M.tech,
Quality Manager

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-1/2016 **Date: 19/3/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM – 161206-1
Grade of Concrete : M-20 Grade
Description of Test : Compressive strength of cubes. At Site (Ward No.1)
Samples Supplied to Lab by : **Sri. A. Chennareddy, Bengaluru.**

SL. No	Location	Laboratory Identification mark	Date of Casting	Date of Testing	Age of Specimen	Dimension of Specimen in mm (L x B x D) in mm	Area of Specimen in mm²	Crushing Load (KN)	Compression Strength (N/mm²)	Avg. Compressive Strength (N/mm²)
1	Drains	161206/1	21/2/2017	28/2/2017	7 Days	(150X150X148)	22500	288	12.80	12.83
2	Drains	161206/2	21/2/2017	28/2/2017	7 Days	(150X150X149)	22500	266	11.82	
3	Drains	161206/3	21/2/2017	28/2/2017	7 Days	(150X150X149)	22500	312	13.87	
4	Drains	161206/4	21/2/2017	19/3/2017	28 Days	(150X150X149)	22500	451	20.04	20.70
5	Drains	161206/5	21/2/2017	19/3/2017	28 Days	(150X150X148)	22500	469	20.84	
6	Drains	161206/6	21/2/2017	19/3/2017	28 Days	(150X150X149)	22500	477	21.20	

☑ *Satisfactory*
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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-1/2016 **Date: 19/3/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM – 161206-1
Grade of Concrete : M-20 Grade
Description of Test : Compressive strength of cubes. At Site (Ward No.1)
Samples Supplied to Lab by : **Sri. A. Chennareddy, Bengaluru.**

SL. No	Location	Laboratory Identification mark	Date of Casting	Date of Testing	Age of Specimen	Dimension of Specimen in mm (L x B x D) in mm	Area of Specimen in mm^2	Crushing Load (KN)	Compression Strength (N/mm^2)	Avg. Compressive Strength (N/mm^2)
1	Drains	161206/1	21/2/2017	28/2/2017	7 Days	(150X150X148)	22500	299	13.29	12.98
2	Drains	161206/2	21/2/2017	28/2/2017	7 Days	(150X150X149)	22500	278	12.36	
3	Drains	161206/3	21/2/2017	28/2/2017	7 Days	(150X150X149)	22500	299	13.29	
4	Drains	161206/4	21/2/2017	19/3/2017	28 Days	(150X150X149)	22500	488	21.69	20.98
5	Drains	161206/5	21/2/2017	19/3/2017	28 Days	(150X150X148)	22500	459	20.40	
6	Drains	161206/6	21/2/2017	19/3/2017	28 Days	(150X150X149)	22500	469	20.84	

☑ *Satisfactory*
☐ *Non Satisfactory*

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-1/2016 **Date: 19/3/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM – 161206-1
Grade of Concrete : M-20 Grade
Description of Test : Compressive strength of cubes. At Site (Ward No.1)
Samples Supplied to Lab by : **Sri. A. Chennareddy, Bengaluru.**

SL. No	Location	Laboratory Identification mark	Date of Casting	Date of Testing	Age of Specimen	Dimension of Specimen in mm (L x B x D) in mm	Area of Specimen in mm^2	Crushing Load (KN)	Compression Strength (N/mm^2)	Avg. Compressive Strength (N/mm^2)
1	Drains	161206/1	20/2/2017	28/2/2017	7 Days	(150X150X148)	22500	309	13.73	13.19
2	Drains	161206/2	20/2/2017	28/2/2017	7 Days	(150X150X149)	22500	269	11.96	
3	Drains	161206/3	20/2/2017	28/2/2017	7 Days	(150X150X149)	22500	312	13.87	
4	Drains	161206/4	20/2/2017	18/3/2017	28 Days	(150X150X149)	22500	498	22.13	20.99
5	Drains	161206/5	20/2/2017	18/3/2017	28 Days	(150X150X148)	22500	457	20.31	
6	Drains	161206/6	20/2/2017	18/3/2017	28 Days	(150X150X149)	22500	462	20.53	

☑ *Satisfactory*
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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-1/2016 **Date: 21/3/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-1
Description of Test : Gradation for WMM.
Sample Location : At Site (Ward No.1)
Total Weight of Sample : 12000grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
53	0	0	0.00	100.0	100
45	155	155	1.34	98.66	95-100
22.4	3977	4132	35.62	64.38	60-80
11.2	2365	6497	56.01	43.99	40-60
4.75	1788	8285	71.42	28.58	25-40
2.36	1005	9290	80.09	19.91	15-30
0.6	988	10278	88.60	11.40	22-8
0.075	1322	11600	100.00	0.00	0-8

Satisfy the Limits ☑
Does not satisfy the limits
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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-1/2016 **Date: 21/3/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-1
Description of Test : Sand Replacement for WMM
Sample Location : At Site (Ward No.1)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2301	2312	2311
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6702	6587	6759
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5321	5236	5287
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1262	1275	1248
6	Volume of sand in the hole, V=wb / Ys , cm3	934.81	944.44	924.44
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.46	2.45	2.50
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	64.02	63.58	65.24
10	Dry Weight =	57.22	59.45	60.23
11	Moisture Content =	4.66	5.88	6.01
12	Field Dry Density (g/cc)	2.35	2.30	2.35

Satisfy the Limits ☑
Does not satisfy the limits
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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-1/2016 **Date: 26/03/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-1
Description of Test : Gradation for DBM.
Sample Location : At Site (Ward No.1)
Total Weight of Sample : 7500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
37.5	0	0	0.0	100	100
26.5	655	655	8.7	91.3	90-100
19	1204	1859	24.8	75.2	71-95
13.2	1200	3059	40.8	59.2	56-80
4.75	877	3936	52.5	47.5	38-54
2.36	780	4716	62.9	37.1	28-42
0.3	1366	6082	81.1	18.9	7-21
0.075	1200	7282	97.1	2.9	2-8

Satisfy the Limits ☑
Does not satisfy the limits

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For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

ABE

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-1/2016 **Date: 26/03/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-1
Description of Test : Sand Replacement for DBM
Sample Location : At Site (Ward No.1)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2225	2325	2345
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6723	6358	6854
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5311	5328	5305
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1279	1345	1271
6	Volume of sand in the hole, V=wb / Ys , cm3	947.41	996.30	941.48
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.35	2.33	2.49
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.87	62.98	63.59
10	Dry Weight =	59.01	58.35	59.21
11	Moisture Content =	5.34	5.03	5.23
12	Field Dry Density (g/cc)	2.22	2.22	2.36

Satisfy the Limits ☑
Does not satisfy the limits
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Quality Manager

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-1/2016 **Date: 27/03/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-1
Description of Test : Sand Replacement for BC
Sample Location : At Site (Ward No.1)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2314	2366	2301
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6853	6951	6893
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5396	5672	5493
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1272	1283	1269
6	Volume of sand in the hole, V=wb / Ys , cm3	942.22	950.37	940.00
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.46	2.49	2.45
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	65.82	65.21	63.79
10	Dry Weight =	61.59	61.02	58.85
11	Moisture Content =	6.81	6.25	6.26
12	Field Dry Density (g/cc)	2.29	2.33	2.29

Satisfy the Limits ☑
Does not satisfy the limits

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Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

AEE

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-1/2016 **Date: 27/03/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-1
Description of Test : Sand Replacement for BC
Sample Location : At Site (Ward No.1)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2241	2156	2176
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6987	6854	6875
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5432	5234	5396
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1258	1242	1255
6	Volume of sand in the hole, V=wb / Ys , cm3	931.85	920.00	929.63
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.40	2.34	2.34
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.59	64.26	63.72
10	Dry Weight =	58.82	60.28	59.82
11	Moisture Content =	5.21	5.05	5.11
12	Field Dry Density (g/cc)	2.28	2.23	2.22

Satisfy the Limits ☑
Does not satisfy the limits

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Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

ABE

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-1/2016

Date: 27/03/2017

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-1
Description of Test : Gradation for BC.
Sample Location : At Site (Ward No.1)
Total Weight of Sample : 2500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
19	0	0	0.0	100	100
13.2	150	150	6.0	94.0	79-100
9.5	311	461	18.4	81.6	70-88
4.75	255	716	28.6	71.4	53-71
2.36	340	1056	42.2	57.8	42-58
1.18	345	1401	56.0	44.0	34-48
0.6	255	1656	66.2	33.8	26-38
0.3	215	1871	74.8	25.2	18-28
0.15	156	2027	81.1	18.9	12-20
0.075	255	2282	91.3	8.7	4-10

Satisfy the Limits ☑
Does not satisfy the limits
** As Furnished by the Customer*

Note:

1. The test results relate only to the item(s) tested.
2. Publication or reproduction of this report in any form other than by complete set of the whole report and in the language written is not permitted without the written approval.
3. Corrections / erasing invalidate the test report
4. Any anomaly / discrepancy in the test report should be brought to our notice within 7 days from the date of issue

For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-2/2016

Date: 20/3/2017

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-2
Description of Test : Gradation for GSB.
Sample Location : At Site (Ward No.2)
Total Weight of Sample : 12000grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
53	0	0	0.00	100.0	100
26.5	120	120	1.00	99.00	70-100
9.5	3654	3774	31.45	68.55	50-80
4.75	1901	5675	47.29	52.71	40-65
2.36	2555	8230	68.58	31.42	30-50
0.425	2015	10245	85.38	14.63	15-25
0.075	1233	11478	95.65	4.35	3-10

Satisfy the Limits ☑
Does not satisfy the limits
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For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE., M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

AEE

Ground Floor, #35, 4th Main, 4th Stage, Next to Trinity Motors. Indl. Town, Basaveshwar Nagar, Bangalore – 560 079, Karnataka, India, Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-2/2016

Date: 20/3/2017

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-2
Description of Test : Sand Replacement for GSB
Sample Location : At Site (Ward No.2)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2344	2256	2356
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6852	6921	6940
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5796	5823	5821
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1284	1273	1298
6	Volume of sand in the hole, V=wb / Ys , cm3	951.11	942.96	961.48
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.46	2.39	2.45
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.87	62.36	62.35
10	Dry Weight =	59.63	57.39	57.5
11	Moisture Content =	6.89	5.98	6.85
12	Field Dry Density (g/cc)	2.29	2.25	2.28

Satisfy the Limits ☑
Does not satisfy the limits

** As Furnished by the Customer*

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Ashwini K, BE, M.Tech
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